

APPENDIX XIII

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MULTICAST_FORWARD(P,L)          (* forward a multicast packet P received on port L *)
    If ProtocolCheck(P) = Routed then          (* routed packet *)
        If ClientLink(L) = False then          (* packet received from a non-client link *)
            V:= VlanfromLink(L);                (* map from link to Vlan *)
            VlanLinkSet:= FindVlanLinks(V,L)      (* if L is not in V return empty list *)
            Forward (P, VlanLinkSet)              (* forward P to Vlan links *)
            P' = AddVlanId(P,V)
            ClientLinkset:= FindClientLinks(V,L)
            Forward (P', ClientLinkset)          (* forward P with VlanId to client links *)
        Else          (* packet received from client link *)
            V:= VlanfromPacket(P);
            ClientLinkset:= FindClientLinks(V,L)  (* map from VlanID in packet *)
            Forward (P, ClientLinkset)            (* forward P to client links *)
            P' = RemoveVlanId(P)
            VlanLinkSet:= FindVlanLinks(V,L)
            Forward (P', VlanLinkSet)            (* forward P with VlanId removed to client links *)
        Else          (* bridged packet*)
            Forward (P, AllBridgedLinks)

UNKNOWN_FORWARD(P,L)          (* forward a packet P with unknown Dest Address received on
link L *)
    If ProtocolCheck(P) = Routed then          (* routed packet *)
        If ClientLink(L) = False then
            VlanLinkSet:= FindVlanLinks(L, ProtocolName)
            Forward (P, VlanLinkSet)
            (* we don't forward to client links since these addresses should be known *)
        Else          (* if from client link, send on all bridged links *)
            Forward (P, AllBridgedLinks)
    Else          (* bridged packet *)
```

Forward (P, AllBridgedLinks)